

AMENDMENTS TO THE CLAIMS

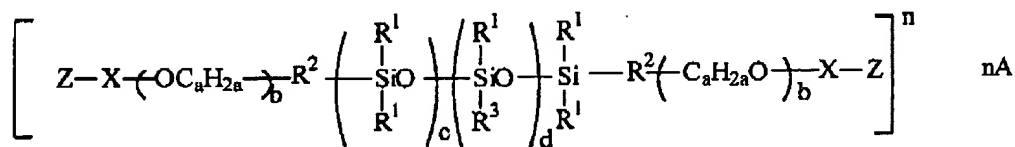
This listing of claims will replace all prior versions, listing of claims in the application:

Listing of Claims:

Claims 1-29 (canceled)

30. (New) A fabric care composition for domestic laundry comprising:
- (I) a cationic silicone polymer comprising one or more polysiloxane units and one or more quaternary nitrogen moieties, wherein the one or more quaternary nitrogen moieties are located in the backbone of the polymer; and
 - (II) one or more laundry adjunct agents selected from the group consisting of:
 - (a) a stabilizer;
 - (b) a nitrogen-free nonionic surfactant;
 - (c) a nitrogen-containing deterative surfactant;
 - (d) a coupling agent;
 - (e) a detergent builder;
 - (f) a fabric substantive perfume;
 - (g) a scavenger agent selected from the group consisting of fixing agents for anionic dyes, complexing agents for anionic surfactants, clay soil control agents and mixtures thereof;
 - (h) a fabric softener;
 - (i) a deterative enzyme;
 - (j) a chelant;
 - (k) a solvent system;
 - (l) an effervescent system;
 - (m) a coating or encapsulating agent; and
 - (n) mixtures thereof.

31. (New) The composition according to Claim 1 wherein the cationic silicone polymer has the formula:



wherein:

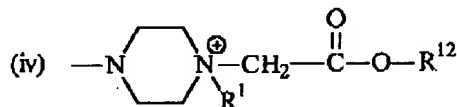
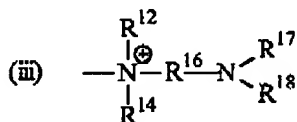
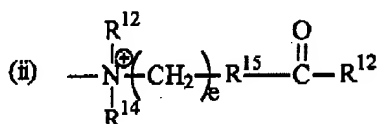
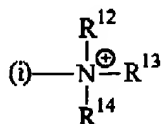
- R¹ is independently selected from the group consisting of: C₁₋₂₂ alkyl, C₂₋₂₂ alkenyl, C₆₋₂₂ alkylaryl, aryl, cycloalkyl and mixtures thereof;

- R^2 is independently selected from the group consisting of: divalent organic moieties that may contain one or more oxygen atoms;
- X is independently selected from the group consisting of ring-opened epoxides;
- R^3 is independently selected from polyether groups having the formula:



- wherein M^1 is a divalent hydrocarbon residue; M^2 is H, C_{1-22} alkyl, C_{2-22} alkenyl, C_{6-22} alkylaryl, aryl; cycloalkyl, C_{1-22} hydroxyalkyl, polyalkyleneoxide or (poly)alkoxy alkyl;
- Z is independently selected from the group consisting of monovalent organic moieties comprising at least one quaternized nitrogen atom;
 - a is from 2-4;
 - b is from 0-100;
 - c is from 1-1000;
 - d is from 0-100;
 - n is the number of positive charges associated with the cationic silicone polymer, which is greater than or equal to 2; and
 - A is a monovalent anion.

32. (New) The composition according to Claim 2 wherein Z is independently selected from the group consisting of:



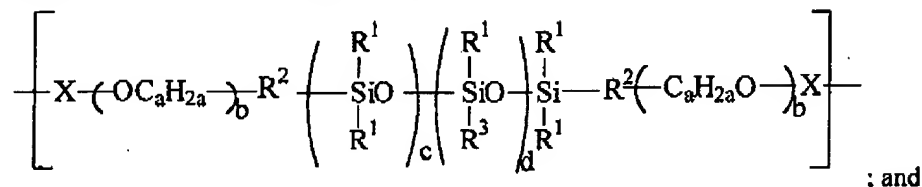
- (v) monovalent aromatic or aliphatic heterocyclic group, substituted or unsubstituted, containing at least one quaternized nitrogen atom;

wherein:

- R^{12} , R^{13} , R^{14} are the same or different, and are selected from the group consisting of: C_{1-22} alkyl, C_{2-22} alkenyl, C_{6-22} alkylaryl, aryl, cycloalkyl, C_{1-22} hydroxyalkyl; polyalkyleneoxide; (poly)alkoxy alkyl, and mixtures thereof;
- R^{15} is -O- or NR^{19} ;
- R^{16} is a divalent hydrocarbon residue;
- R^{17} , R^{18} , R^{19} are the same or different, and are selected from the group consisting of: H, C_{1-22} alkyl, C_{2-22} alkenyl, C_{6-22} alkylaryl, aryl, cycloalkyl, C_{1-22} hydroxyalkyl; polyalkyleneoxide, (poly)alkoxy alkyl and mixtures thereof; and
- e is from 1 to 6.

33. (New) A fabric care composition according to Claim 1 wherein the cationic silicone polymer is composed of alternating units of:

(i) a polysiloxane of the following formula:



(ii) a divalent organic moiety comprising at least two quaternized nitrogen atoms;

wherein:

- R^1 is independently selected from the group consisting of: C_{1-22} alkyl, C_{2-22} alkenyl, C_{6-22} alkylaryl, aryl, cycloalkyl and mixtures thereof;
- R^2 is independently selected from the group consisting of: divalent organic moieties that may contain one or more oxygen atoms;
- X is independently selected from the group consisting of ring-opened epoxides;
- R^3 is independently selected from polyether groups having the formula:

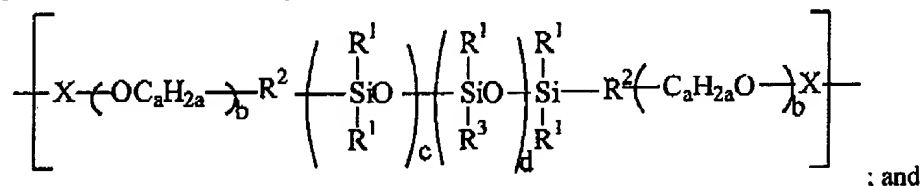


wherein M^1 is a divalent hydrocarbon residue; M^2 is H, C_{1-22} alkyl, C_{2-22} alkenyl, C_{6-22} alkylaryl, aryl, cycloalkyl, C_{1-22} hydroxyalkyl, polyalkyleneoxide or (poly)alkoxy alkyl;

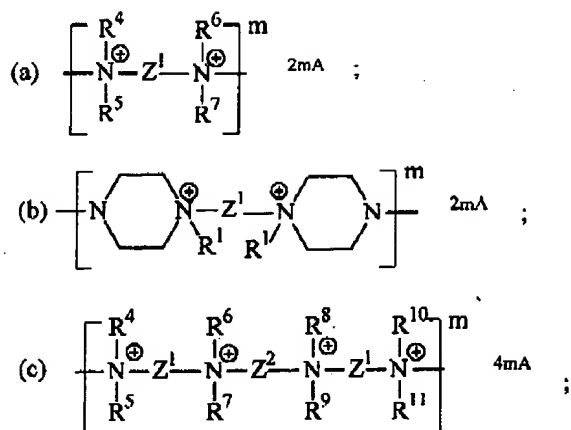
- a is from 2-4;
- b is from 0-100;
- c is from 1-1000; and
- d is from 0-100.

34. (New) A fabric care composition according to Claim 1 wherein the cationic silicone polymer is composed of alternating units of:

(i) a polysiloxane of the following formula:



(ii) a cationic divalent organic moiety selected from the group consisting of:

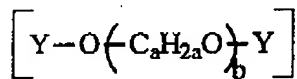


(d) a divalent aromatic or aliphatic heterocyclic group, substituted or unsubstituted, containing at least one quaternized nitrogen atom;

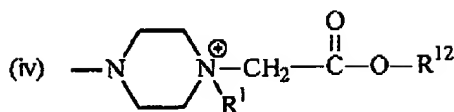
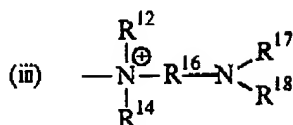
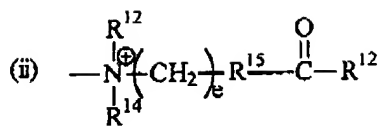
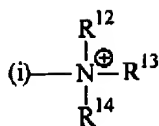
wherein:

- $R^4, R^5, R^6, R^7, R^8, R^9, R^{10}, R^{11}$ are the same or different, and are selected from the group consisting of: C_{1-22} alkyl, C_{2-22} alkenyl, C_{6-22} alkylaryl, aryl, cycloalkyl, C_{1-22} hydroxyalkyl; polyalkyleneoxide; (poly)alkoxy alkyl and mixtures thereof; or in which R^4 and R^6 , or R^5 and R^7 , or R^8 and R^{10} , or R^9 and R^{11} may be components of a bridging alkylene group;
- Z^1 and Z^2 are the same or different divalent hydrocarbon groups with at least 2 carbon atoms;
- Y is a secondary or tertiary amine;
- m is the number of positive charges associated with the cationic divalent organic moiety, which is greater than or equal to 2; and
- A is an anion.

35. (New) A composition according to Claim 34 wherein the cationic silicone polymer is further composed of alternating units of a polyalkyleneoxide of formula:



36. (New) A composition according to Claim 35 wherein the cationic silicone polymer is further composed of alternating units of a cationic monovalent organic moiety, to be used as an end-group, selected from the group consisting of:



(v) monovalent aromatic or aliphatic heterocyclic group, substituted or unsubstituted, containing at least one quaternized nitrogen atom;

wherein, R^{12} , R^{13} , R^{14} are the same or different, and are selected from the group consisting of: C_{1-22} alkyl; C_{2-22} alkenyl; C_{6-22} alkylaryl; C_{1-22} hydroxyalkyl; polyalkyleneoxide; (poly)alkoxy alkyl groups and mixtures thereof;

- R^{15} is -O- or NR^{19} ;

- R^{16} and M^1 are the same or different divalent hydrocarbon residues;

- R^{17} , R^{18} , R^{19} are the same or different, and are selected from the group consisting of: H,

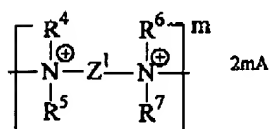
C_{1-22} alkyl, C_{2-22} alkenyl, C_{6-22} alkylaryl, aryl, cycloalkyl, C_{1-22} hydroxyalkyl; polyalkyleneoxide,

(poly)alkoxy alkyl, and mixtures thereof; and

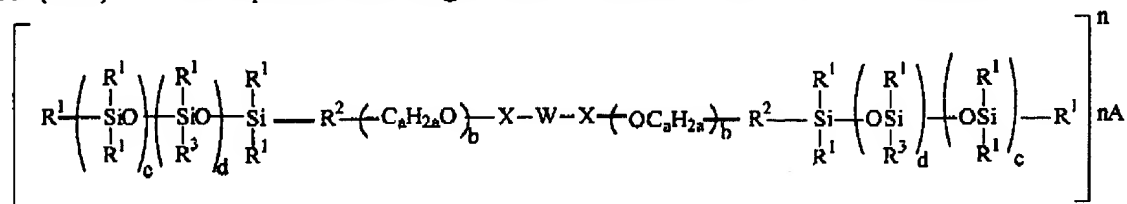
- e is from 1-6.

37. (New) A composition according to Claim 34 wherein Z^1 and Z^2 are the same or different divalent hydrocarbon groups with at least 2 carbon atoms and containing a hydroxy group.

38. (New) A composition according to Claim 34 wherein the cationic divalent organic moiety is:



39. (New) A composition according to Claim 1 wherein the cationic silicone polymer has the formula:



wherein:

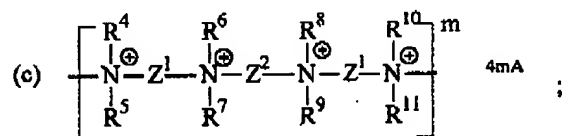
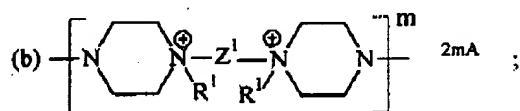
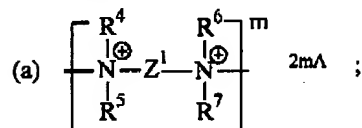
- R^1 is independently selected from the group consisting of: C_{1-22} alkyl; C_{2-22} alkenyl; C_{6-22} alkylaryl; aryl; cycloalkyl and mixtures thereof;

- R^2 is independently selected from the group consisting of: divalent organic moieties that may contain one or more oxygen atoms;
- X is independently selected from the group consisting of ring-opened epoxides;
- R^3 is independently selected from polyether groups having the formula:



- wherein M^1 is a divalent hydrocarbon residue; M^2 is H, C_{1-22} alkyl, C_{2-22} alkenyl, C_{6-22} alkylaryl, aryl, cycloalkyl, C_{1-22} hydroxyalkyl, polyalkyleneoxide or (poly)alkoxy alkyl;
- X is independently selected from the group consisting of ring-opened epoxides;
 - W is independently selected from the group consisting of divalent organic moieties comprising at least one quaternized nitrogen atom
 - a is from 2-4;
 - b is from 0-100;
 - c is from 1-1000;
 - d is from 0-100;
 - n is the number of positive charges associated with the cationic silicone polymer, which is greater than or equal to 1; and
 - A is a suitable counterion.

40. (New) A composition according to Claim 39 wherein W is selected from the group consisting of:



(d) a divalent aromatic or aliphatic heterocyclic group, substituted or unsubstituted, containing at least one quaternized nitrogen atom; and

- $R^4, R^5, R^6, R^7, R^8, R^9, R^{10}, R^{11}$ are the same or different, and are selected from the group consisting of: C_{1-22} alkyl, C_{2-22} alkenyl, C_{6-22} alkylaryl, aryl, cycloalkyl, C_{1-22} hydroxyalkyl; polyalkyleneoxide; (poly)alkoxy alkyl, and mixtures thereof; or in which R^4 and R^6 , or R^5 and R^7 , or R^8 and R^{10} , or R^9 and R^{11} may be components of a bridging alkylene group; and
- Z^1 and Z^2 are the same or different divalent hydrocarbon groups with at least 2 carbon atoms, which may contain a hydroxy group and which may be interrupted by one or several ether, ester or amide groups.

41. (New) A composition according to Claim 30 wherein the composition provides perfume benefits when contacted to fabric.
42. (New) A composition according to Claim 30 further comprising a cationic surfactant and/or fabric softener active
43. (New) A composition according to Claim 42 wherein the fabric softener active is an alkylquat cationic surfactant.
44. (New) A composition according to Claim 30, further comprising one or more adjunct cleaning materials selected from the group consisting of surfactants, builders, enzymes, suds suppressors, and mixtures thereof.
45. (New) A composition according to Claim 30, comprising an effervescent system.
- a! 46. (New) A composition according to Claim 30 wherein the composition is a thickened built aqueous liquid laundry detergent composition comprising:
- (a) from 0.01% to 5% of a water-immiscible cationic silicone random block copolymer comprising three or more polydimethylsiloxane units $-[(CH_3)_2SiO]_n-$ having a degree of polymerization, n, of from 50 to 200 and organosilicon-free units comprising at least one diquatary unit;
 - (b) from 0.001% to 10% of a stabilizer selected from gums, hydroxyl-containing stabilizing agents, and compatible rheological additives other than said gums and hydroxyl-containing stabilizing agents;
 - (c) from 5% to 50% of a surfactant;
 - (d) from 0.5% to 50% of builder;
 - (e) from 0.5% to 30% of solvent other than water; and
 - (f) from 5% to 90% of water.
47. (New) A composition according to Claim 30 wherein the composition further comprises a fabric substantive perfume.
48. (New) A composition according to Claim 31 wherein C is from about 70 to about 100.
49. (New) A composition according to Claim 39 wherein C is from about 70 to about 100.
-